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DATE MAILED: 06/18/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/941,666	08/30/2001	Hirotaka Yamamoto	011063	9199
	7590 06/18/2003	·		
ARMSTRONG,WESTERMAN & HATTORI, LLP			EXAMINER	
1725 K STREET, NW SUITE 1000 WASHINGTON, DC 20006		SHEWAREGED, BETELHEM		
			ART UNIT	PAPER NUMBER
			1774	

Please find below and/or attached an Office communication concerning this application or proceeding.

•			Λ			
Office Action Summary		Application No.	Applicant(s)			
		09/941,666	YAMAMOTO, HIROTAKA			
		Examiner	Art Unit			
		Betelhem Shewareged	1774			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE - Exte after - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period we use to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) dwill apply and will expire SIX (6) MONTHS fro cause the application to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communication. IED (35 U.S.C. § 133).			
1)⊠	Responsive to communication(s) filed on 09 A	April 2003 .				
2a) <u></u>	This action is FINAL . 2b)⊠ Thi	is action is non-final.				
3)[
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
· ·	Claim(s) 2-20 is/are pending in the application					
4a) Of the above claim(s) <u>6-19</u> is/are withdrawn from consideration.						
5)[5) Claim(s) is/are allowed.					
6)⊠	6)⊠ Claim(s) <u>2-5 and 20</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
-	Claim(s) are subject to restriction and/or ion Papers	r election requirement.				
	The specification is objected to by the Examine	r.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 						
Attachmen						
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informa	ary (PTO-413) Paper No(s) I Patent Application (PTO-152)			
.S. Patent and T	rademark Office	,				

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DETAILED ACTION

1. Applicant's response filed on 04/09/2003 has been fully considered. The prior art rejection has been withdrawn in view of applicant's amendment and comments.

2. Claim 1 is canceled, claims 2-5 are amended, claim 20 is added, and thus claims 2-20 are pending. NOTE: Claims 6-19 are still withdrawn as non-elected claims.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2-5 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Igarashi et al. (US 5,882,755).

Igarashi discloses an ink jet recording sheet having a support and at least one ink receiving layer, wherein a cationic polymer is impregnated in at least one of the support and the ink receiving layer (abstract). Polycondensate of dicyandiamide is a suitable example of the impregnated cationic polymer (col. 12, line 7). The ink receiving layer further contains at least one or a combination of porous silica, aluminum silicate and pseudoboehmite as a pigment (col. 12, line 14). The aluminum silicate is equivalent to the claimed aluminum salt, and the pseudoboehmite is equivalent to the claimed hydrate aluminum oxide. The ink receiving layer also contains a binder such as silyl-modified polyvinyl alcohol (col. 13, line 9). The amount of the pigment falls within

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the claimed range, i.e., in one embodiment the calculated amount of the pigment in the ink receiving layer is 75% (Ink receiving layer A in col. 17, line 65 thru col. 18, line 8).

With respect to the pH value, it is elementary that the mere recitation of newly discovered function or property, inherently possessed by things in the prior art, does not cause a claim drawn to those things to distinguish over the prior art." *In re swinehart et al.*, 169 USPQ 226 at 229. Since the Igarashi reference teaches all of Applicant's claimed compositional and positional limitations, i.e., ink jet recording sheet having a support, an ink receiving layer on the support and impregnated cationic polymer in the support and/or in the ink receiving layer, wherein the ink receiving layer comprises a pigment and a binder as the claimed invention, it is inherent that the reference article functions in the same manner claimed by Applicant. The burden is upon Applicant to prove that the subject matter shown to be in the prior art does not possess the characteristic relied on.

Igarashi does not disclose the claimed amount of the cationic polymer. The experimental modification of this prior art in order to ascertain optimum operating conditions fails to render applicants' claims patentable in the absence of unexpected results. *In re Aller*, 105 USPQ 233. One of ordinary skill in the art would have been motivated to adjust the amount of the cationic polymer in order to optimize the water resistance and ink fixing properties of the layer (col. 7, lines 18-38). A prima facie case of obviousness may be rebutted, however, where the results of the optimizing variable, which is known to be result-effective, are unexpectedly good. *In re Boesch and Slaney*, 205 USPQ 215.

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Conclusion

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Betelhem Shewareged whose telephone number is 703-305-0389. The examiner can normally be reached on Mon.-Thur. 7:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia H Kelly can be reached on 703-308-0449. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-5408 for regular communications and 703-305-3599 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.